

In the Claims

This listing of claims will replace all prior versions and listings of claims in this application.

1 (Currently Amended). A photovoltaic cell comprising a membrane electrode assembly capable of transmitting light,  
wherein the membrane electrode assembly comprises a membrane,  
wherein the membrane is a material comprising a hydrophilic polymer,  
wherein the hydrophilic polymer comprises a strongly ionic group, and  
wherein the strongly ionic group is a sulphonic acid group, ~~an OH group~~, or a phosphoric or phosphonic acid group.

2-3 (Canceled).

4 (Previously Presented). The cell according to claim 1, wherein the hydrophilic polymer is cross-linked.

5 (Previously Presented). The cell according to claim 1, wherein the membrane is a malleable material.

6 (Previously Presented). The cell according to claim 1, wherein the membrane electrode assembly is in the form of a stack.

7 (Previously Presented). The cell according to claim 1, wherein the membrane electrode assembly comprises a catalyst.

8 (Previously Presented). The cell according to claim 7, wherein the catalyst comprises platinum and/or titanium dioxide.

9 (Previously Presented). The cell according to claim 1, wherein the membrane comprises a channel suitable for the transmission of light.

10 (Previously Presented). The cell according to claim 1, wherein the membrane is optically transparent.

11 (Previously Presented). The cell according to claim 1, wherein the membrane electrode assembly comprises a dye sensitizer.

12 (Previously Presented). The cell according to claim 1, wherein the membrane electrode assembly is planar in structure.

13 (Previously Presented). The cell according to claim 1, wherein an electrode of the membrane electrode assembly is transparent.

14 (Currently Amended). A method for generating a voltage, wherein said method comprises irradiating a photovoltaic cell comprising a membrane electrode assembly capable of transmitting light,

wherein the membrane electrode assembly comprises a membrane,  
wherein the membrane is a material comprising a hydrophilic polymer,  
wherein the hydrophilic polymer comprises a strongly ionic group, and  
wherein the strongly ionic group is a sulphonic acid group, an OH group, or a phosphoric or phosphonic acid group.

15 (Canceled).

16 (Previously Presented). The method, according to claim 14, wherein the hydrophilic polymer is cross-linked.

17 (Previously Presented). The method, according to claim 14, wherein the membrane electrode assembly comprises a catalyst.

18 (Previously Presented). The method, according to claim 14, wherein the membrane comprises a channel suitable for the transmission of light.

19 (Previously Presented). The method, according to claim 14, wherein the membrane is optically transparent.

20 (Previously Presented). The method, according to claim 14, wherein the membrane electrode assembly comprises a dye sensitizer.

21 (Previously Presented). The cell according to claim 1, wherein the membrane electrode assembly is configured to function as a light waveguide.

22 (Previously Presented). The method according to claim 14, wherein the membrane electrode assembly is configured to function as a light waveguide.

23 (New). A photovoltaic cell comprising a membrane electrode assembly capable of transmitting light,

wherein the membrane electrode assembly comprises a membrane,  
wherein the membrane is a material comprising a hydrophilic polymer, and  
wherein the hydrophilic polymer comprises an alkali OH group.